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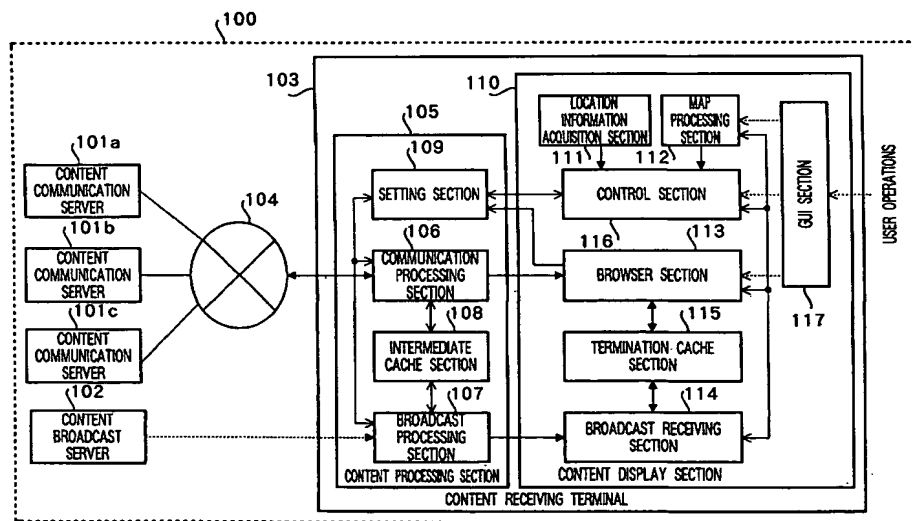
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(54) Title: CONTENT PROCESSING APPARATUS AND CONTENT DISPLAY APPARATUS BASED ON LOCATION INFORMATION



(57) Abstract: The present invention receives list content providing location conditions in a list organized by location conditions in which a reference destination of location-dependent content, being content assigned correspondence to geographical location information, is compiled for each location condition, sent from a content communication server; receives the sent location information; generates area-specific list content comprising information on location-dependent content corresponding to location information, by extracting a list organized by location conditions, in which location conditions matching location information are provided, from the list content; and outputs the area-specific list content.



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## AMENDED CLAIMS

**[Received by the International Bureau on 21 December 2004 (21.12.04):  
original claims 1-8, 11, 13-18, 20, 22, 42, 43, 46 and 47 are amended ; original claims 9,  
10, 12, 21, 23-41, 44, 45, 48, 49, 52 and 53 are cancelled ; other claims are retained  
unchanged. ]**

1. (Revised) A content processing apparatus  
comprising:

a list content receiving section that, upon request  
5 from a terminal, receives list content from a content  
communication server, said list content providing  
location conditions in a list organized by location  
conditions in which a reference destination of  
location-dependent content, being content assigned  
10 correspondence to geographical location information, is  
compiled for each location condition;

a location information receiving section that  
receives location information sent from said terminal;

a content adaptation processing section that  
15 generates area-specific list content comprising  
information on said location-dependent content  
corresponding to said location information by extracting  
said list organized by location conditions in which are  
provided said location conditions matching said location  
20 information from said list content;

an area-specific list content distribution  
processing section that distributes said area-specific  
list content to said terminal; and

a content relay distribution section that, upon  
25 request from said terminal, receives said  
location-dependent content from said content  
communication server , and relay-distributes said  
location-dependent content to said terminal.

2. (Revised) The content processing apparatus according to claim 1, wherein said content adaptation processing section:

creates a location condition list in which said  
5 location condition contained in said list content is extracted;

performs location determination processing that compares said location condition recorded in said location condition list with said location information;  
10 records a result of said location determination in said location condition list;

when new location information is acquired, obtains a new location determination result by performing said location determination processing; and  
15 by determining whether or not a previous said location determination result and said new location determination result match, determines whether or not said location determination result has been updated.

3. (Revised) The content processing apparatus  
20 according to claim 2, wherein:

in said location condition list there is recorded a reference destination of said list content that is a generation source of said location condition; and  
said content adaptation processing section outputs  
25 location determination update information indicating presence or absence of a change in said location determination result, and when said location determination update information indicates that there

is a change in said location determination result, also outputs a reference destination of said list content.

4. (Revised) The content processing apparatus according to claim 3, wherein:

5        said location information comprises a latitude coordinate value and a longitude coordinate value of an arbitrary point within an area stipulated beforehand; and

      said location condition comprises a circular area  
10 stipulated by center latitude and longitude coordinate values and length of radius.

5. (Revised) The content processing apparatus according to claim 3, further comprising:

      a menu content relay distribution section that, upon  
15 request from said terminal, receives menu content from said content communication server, said menu content being composed of pairs of a category of said location-dependent content and a reference destination of list content corresponding to said category, and  
20 relay-distributes said menu content to said terminal; and

      a list content distribution request receiving section that receives a distribution request for said list content corresponding to a category selected by a  
25 user of said terminal, sent from said terminal,

      wherein said list content receiving section receives said list content in accordance with said distribution request for said list content.

6. (Revised) The content processing apparatus according to claim 3, further comprising:

a menu content receiving section that, upon request from said terminal, receives menu content from a content broadcast server that performs data broadcasting, said menu content being composed of pairs of a category of said location-dependent content and a reference destination of list content corresponding to said category, and relay-distributes said menu content to said terminal;

a list content distribution request receiving section that receives a distribution request for said list content corresponding to a category selected by a user of said terminal, sent from said terminal, wherein said list content receiving section receives said list content in accordance with said distribution request for said list content.

7. (Revised) The content processing apparatus according to claim 3, further comprising:

a general content receiving section that receives general content other than said location-dependent content; and

a general content processing section that outputs said general content.

8. (Revised) The content processing apparatus according to claim 3, wherein:

said list content receiving section stores said list content, and, when a distribution request for list content

that is identical to said list content stored in said list content receiving section is received, does not receive said list content anew from said content server again; and

5           after said list content receiving section stores said list content, said content adaptation processing section, when new location information is acquired by said location information receiving section, generates said area-specific list content comprising information  
10   on said location-dependent content corresponding to newly acquired said location information by extracting said list organized by location conditions in which are provided said location conditions matching said newly acquired location information from said list content.

15   9       (Cancelled)

10.   (Cancelled)

11.   (Revised) A content processing apparatus comprising:

20           a content storage section that stores list content providing location conditions in a list organized by location conditions in which location-dependent content which is content assigned correspondence to geographical location information, and a reference destination of said location-dependent content, are compiled for each said  
25   location condition;

          a location information receiving section that receives location information sent from a terminal;

          a content adaptation processing section that

generates area-specific list content comprising  
information on said location-dependent content  
corresponding to said location information by extracting  
said list organized by location conditions in which are  
5 provided said location conditions matching said location  
information from said list content;

an area-specific list content output processing  
section that distributes said area-specific list content  
to said terminal; and  
10 a content distribution section that, upon request  
from said terminal, distributes said location-dependent  
content corresponding to said location-dependent content  
distribution request from said terminal.

12. (Cancelled)

15 13. (Revised) A content display apparatus comprising:  
a location information acquisition section that  
acquires location information at regular intervals;  
a location information transmitting section that  
transmits said location information to the content  
20 processing apparatus according to claim 9 at regular  
intervals;

a distribution request section that  
transmits a distribution request for  
area-specific list content generated from said  
25 list content, to said content processing  
apparatus;

an area-specific list content receiving section  
that receives said area-specific list content from said



content processing apparatus;

an update information receiving section that receives said location determination update information sent from said content processing apparatus in response  
5 to said location information;

a list update notification section that notifies a user that said area-specific list content has been updated when said location determination update information indicates that there is a change in a location  
10 determination result;

a redistribution request section that, upon request from said user, transmits a redistribution request for said area-specific list content to said content processing  
15 apparatus;

a content receiving section that receives said location-dependent content selected by said user from said area-specific list content, from said content processing apparatus; and

20 a content display section that displays said area-specific list content and said location-dependent content.

14. (Revised) The content display apparatus according to claim 13, wherein said redistribution request section  
25 extracts a reference destination of said list content accompanying said location determination update information, and transmits said content distribution request containing said reference destination of said

list content to said content processing apparatus.

15. (Revised) The content display apparatus according to claim 13, wherein, when said location determination update information indicates that there is a change in  
5 a location determination result, said content display section displays the latest information and update date and time of said area-specific list content.

16. (Revised) The content display apparatus according to claim 13, wherein:

10       said location information acquisition section acquires a latitude coordinate value and longitude coordinate value of a present position by means of GPS; and

      said location information comprises a circular area  
15 with said present position in a center.

17. (Revised) The content display apparatus according to claim 14, wherein:

      said content display section has a content display mode that displays said area-specific list content and  
20 a map display mode enabling display of map data centered on a present position, and switching is possible between said content display mode and said map display mode; and

      said list update notification section displays an update situation of said area-specific list content at  
25 all times, and accepts said area-specific list content update request from a user at all times, irrespective of a status of said content display section.

18. (Revised) The content display apparatus according

to claim 17, wherein said content display section, when  
in said map display mode, has a function that obtains  
a latitude coordinate value and longitude coordinate  
value of a point on a map specified by a user, and outputs  
5 these to said location information acquisition section.

19. The content display apparatus according to claim  
18, wherein said location information acquisition section  
has a function that accepts input of address information  
from a user and obtains a latitude coordinate value and  
10 longitude coordinate value from input address information,  
or a function that acquires a latitude coordinate value  
and longitude coordinate value from said content display  
section in a state in which a map is displayed.

20. (Revised) A content receiving terminal comprising  
15 the content processing apparatus according to  
claim 9 and a content display apparatus, said content  
display apparatus having:

a location information acquisition section that  
acquires location information at regular intervals;

20 a location information transmitting section that  
transmits said location information to said content  
processing apparatus at regular intervals;

a distribution request section that  
transmits a distribution request for  
25 area-specific list content generated from said  
list content, to said content processing  
apparatus;

an area-specific list content receiving section

that receives said area-specific list content from said content processing apparatus;

an update information receiving section that receives said location determination update information sent from said content processing apparatus in response to said location information;

a list update notification section that notifies a user that said area-specific list content has been updated when said location determination update information indicates that there is a change in a location determination result;

a redistribution request section that, upon request from said user, transmits a redistribution request for said area-specific list content to said content processing apparatus;

a content receiving section that receives said location-dependent content selected by said user from said area-specific list content, from said content processing apparatus; and

a content display section that displays said area-specific list content and said location-dependent content.

21. (Cancelled)

22. (Revised) A content adaptive distribution system comprising:

a content communication server that distributes list content providing location conditions in a list

organized by location conditions in which  
location-dependent content, being content assigned  
correspondence to geographical location information, and  
a reference destination of said location-dependent  
5 content, are compiled for each location condition; and  
the content receiving terminal according to claim

20.

23. (Cancelled)

24. (Cancelled)

10 25. (Cancelled)

26. (Cancelled)

27. (Cancelled)

28. (Cancelled)

29. (Cancelled)

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20 35. (Cancelled)

36. (Cancelled)

37. (Cancelled)

38. (Cancelled)

39. (Cancelled)

25 40. (Cancelled)

41. (Cancelled)

42. (Revised) A content relay distribution method  
comprising:

upon request from a terminal, receiving list content from a content communication server, said list content providing location conditions in a list organized by location conditions in which location-dependent content, 5 being content assigned correspondence to geographical location information, and a reference destination of said location-dependent content, , are compiled for each location condition;

receiving location information from said terminal;  
10 upon receiving a distribution request for said list content from said terminal, generating area-specific list content comprising information on said location-dependent content corresponding to said location information by extracting said list organized 15 by location conditions in which are provided said location conditions matching said location information from said list content, and distributing said area-specific list content to said terminal;

upon receiving said location information anew from 20 said terminal, distributing previously generated area-specific content and update information indicating presence or absence of a change in the newly generated area-specific list content; and

upon request from said terminal, relay-distributing 25 said location-dependent content to said terminal.

43. (Revised) The relay distribution method according to claim 42, further comprising:

transmitting a message comprising a

distribution request for said list content to  
a content processing apparatus;

in response to said message, receiving  
said area-specific list content generated from  
5 said list content;

displaying said area-specific list  
content;

reporting said location information,  
acquired at regular intervals, to said content  
10 processing apparatus;

in response to said location information,  
receiving said update information;

when said update information indicates  
presence of a change in content, transmitting  
15 a redistribution request for said  
area-specific content to said content  
processing apparatus;

in response to said request, receiving  
said area-specific content;

20 displaying the new area-specific list  
content;

transmitting a message comprising a  
distribution request for said location-dependent  
content selected by said user from said area-specific  
25 list content, to said content processing apparatus;

in response to said message, receiving  
said location-dependent content; and

displaying said location-dependent content.

44. (Cancelled)

45. (cancelled)

46. (Revised) A program that causes a computer to:  
receive list content from a content communication  
5 server upon request from a terminal, said list content  
providing location conditions in a list organized by  
location conditions in which location-dependent content,  
being content assigned correspondence to geographical  
location information, and a reference destination of said  
10 location-dependent content, are compiled for each  
location condition;

receive location information from said terminal;  
upon receiving a distribution request for said list  
content from said terminal, generate area-specific list  
15 content comprising information on said  
location-dependent content corresponding to said  
location information by extracting said list organized  
by location conditions in which are provided said location  
conditions matching said location information from said  
20 list content, and distribute said area-specific list  
content to said terminal;

upon receiving said location information anew from  
said terminal, distribute previously generated  
area-specific content and update information indicating  
25 presence or absence of a change in the newly generated  
area-specific list content; and

upon request from said terminal, relay-distribute  
said location-dependent content to said terminal.



47. (Revised)

The program according to claim 46, that further causes a computer to:

transmit a message comprising a  
5 distribution request for said list content to  
a content processing apparatus;

in response to said message, receive said  
area-specific list content generated from said  
list content;

10 display said area-specific list content;  
report said location information,  
acquired at regular intervals, to said content  
processing apparatus;

in response to said location information,  
15 receive said update information;

when said update information indicates  
presence of a change in content, transmit a  
redistribution request for said area-specific  
content to said content processing apparatus;

20 in response to said request, receive said  
area-specific content;

display the new area-specific list  
content;

transmit a message comprising a  
25 distribution request for said location-dependent  
content selected by said user from said area-specific  
list content, to said content processing apparatus;

in response to said message, receive said

location-dependent content; and

display said location-dependent content.

48. (Cancelled)

49. (cancelled)

5 50. A computer-readable recording medium that stores  
the program according to claim 46.

51. A computer-readable recording medium that stores  
the program according to claim 47.

52. (Cancelled)

10 53. (cancelled)

## Statement under PCT Article 19(1)

The prior art patent and the present invention relate to the same technical field, and, more particularly,  
5 broadly relate to navigation systems and geographical information systems.

Typical examples of navigation system functions include route guidance to the destination and searching for information on surrounding areas.

10 The present invention broadly relates to navigation systems and geographical information systems.

In particular, the present invention is made with the purpose of providing a navigation system having functions for searching for information on surrounding  
15 areas and providing the information to mobile terminals at a high level of efficiency. Features of the present invention include (1) distribution of structural geographical information; (2) searching for information on surrounding areas at a high level of efficiency; and  
20 (3) mobile terminal user interface.

By contrast with the present invention, the prior patent (EP 0 945 706 A, US 6 415 227 B1) relates only to a method of query in relational database storing geographical information, a data storing method, and  
25 memory management.

The present amendment cancels pages 138-152.